

## ABSTRACT

An Al-coated steel sheet is improved in anti-scratching property during press-working and corrosion-resistance to a stored fuel by direct formation of an alkali-soluble resin film on an Al-coated steel sheet. An  
5 alkali-soluble resin, which can be dissolved in an alkali liquid of pH 9.0 or higher, is preferably urethane or acrylic resin with an acid value of 40-90 having a carboxyl group in its molecule. Alkali metal may be substituted for 1-50% hydrogen atom of the carboxyl group. A powdery synthetic resin at a ratio of 1-25mass% and/or powdery silica at a ratio of 1-30mass% may be  
10 dispersed in the resin film. The resin film is preferably of 0.2-5.0 $\mu$ m in thickness. After the Al-coated steel sheet is painted with the resin, it is shaped to upper and lower halves of a fuel tank and washed with an alkali to dissolve off the resin film. The upper and lower halves are welded together and coated with a paint at their external surfaces to fabricate a fuel tank.

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